

# UNITED STATES PATENT AND TRADEMARK OFFICE



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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 06/22/2001 09/886,210 Kinichi Higure 500.40277X00 5565 20457 EXAMINER 7590 10/13/2004 ANTONELLI, TERRY, STOUT & KRAUS, LLP GHEBRETINSAE, TEMESGHEN 1300 NORTH SEVENTEENTH STREET ART UNIT PAPER NUMBER **SUITE 1800** ARLINGTON, VA 22209-9889 2637

DATE MAILED: 10/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

time I does	Application No.	Applicant(s)
Office Action Summary	09/886,210	HIGURE, KINICHI
	Examiner	Art Unit
	Temesghen Ghebretinsae	2637
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on	_•	
2a) This action is <b>FINAL</b> . 2b) This	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) <u>1-14</u> is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner	•	
10) $\boxtimes$ The drawing(s) filed on <u>22 June 2001</u> is/are: a) $\square$ accepted or b) $\boxtimes$ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		-(d) or (f).
1. Certified copies of the priority documents have been received.		
<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>		
application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal Pa	atent Application (PTO-152)
Paper No(s)/Mail Date	6) Other:	

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#### **DETAILED ACTION**

- 1. It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:
  - 1. Application number (checked for accuracy, including series code and serial no.).
  - 2. Group art unit number (copied from most recent Office communication).
  - 3. Filing date.
  - 4. Name of the examiner who prepared the most recent Office action.
  - 5. Title of invention.
  - 6. Confirmation number (See MPEP § 503).

#### **Drawings**

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the switching control unit (118) including "a calculation unit" and "a comparator" of claim 11 and a gain controller (110) including "a sample and hold circuit" of claim 12 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

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of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

## Claim Objections

4. Claims 1,7,8,9,13,14 are objected to because of the following informalities: in claim 1, line 12, "the second" should be ---a second---; in claim 7, line 8, "the instantaneous value" should be ---an instantaneous value--- and "the envelope" should be ---an envelope---; in claim 8, line 2, "the RSSI signal" should be ---an RSSI signal---; in claim 9, line 2, "the signal received" should be ---a signal received----; in claim 9, line 8, "the instantaneous value" should be ---an instantaneous value----; in claim 9, line 9, "the envelope" should be ---an envelope----; in claim 13, line 6, "the instantaneous value"

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should be ---an instantaneous value---; "the envelope" should be ---an envelope---; in claim 13, line 9, "the first interval average" should be ---a first interval average---; and "the second interval average" should be ---a second interval average----; in claim 13, line 15, "the difference" should be ---a difference----; in claim 14, line 6, "said third interval time length" should be ---said third predetermined time length. Appropriate correction is required.

### Allowable Subject Matter

5. This application is in condition for allowance except for the following formal matters:

See paragraph 2-4 above.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

6. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to anticipate or render obvious the claimed an AGC circuit for a digital radio receiver, comprising: a short interval average value calculation unit, coupled to the detection unit, for determining a short interval average value providing an average of instantaneous values during a second predetermined time length shorter than said first predetermined time length in combination with an input terminal for inputting a received input signal; an amplifier coupled to said input terminal; a demodulator coupled to said amplifier; a detection unit, coupled to said input terminal.

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for detecting an instantaneous value of envelope of the input received signal sequentially at predetermined time intervals; a long interval average value calculation unit, coupled to the detection unit, for determining a long interval average value providing an average of instantaneous values during a first predetermined time length; a gain controller, coupled to said amplifier, for controlling an amplifier of said amplifier; and a switching control unit, coupled to said short and long interval average value calculation units, for selectively controlling so as to apply one of the short interval average value and the long interval average value to said gain controller in the manner and complexity explicitly claimed in claims 1,7,9,10,13.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents 4,531,089 and 3,613,012 are cited to shoe AGC circuit with interval average values calculation unit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temesghen Ghebretinsae whose telephone number is 571-272-3017. The examiner can normally be reached on Monday-Friday from 8 to 6. The examiner can also be reached on alternate

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on 571-272-2866. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T.G.

10/8/04.

Temesghen Ghebretinsae Primary Examine

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